

RB Series Rolling Ball Sensor Switch



Features/Benefits

- Ultra miniature design
- Patent awarded





Different angle options to trigger

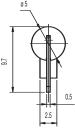
Typical Applications

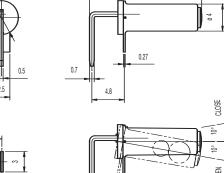
- Household goods
- Electronic toys
- Consumer electronics including irons, portable heaters, games, toys
- Safety and security controls



PART NUMBER	PACKAGING
RB-231X2	1,000 pieces

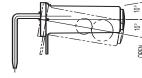
12.4







PCB LAYOUT



0

Specifications

CONTACT ARRANGEMENT: SPST

SENSOR ANGLE: 0° to -10° scope inside, terminal to

disconnection electric current

MINIMUM VOLTAGE: 1 VDC 10mA (resistive load) MAXIMUM VOLTAGE: 5 VDC 1mA (resistive load)

OPERATING LIFE: 100.000 cycles

INSULATION RESISTANCE: 1000 M Ω min. @ 100 VDC

DIELECTRIC STRENGTH: 500 V AC (50-60 Hz) OPERATING TEMPERATURE: -20°C to +70°C

Materials

FRAME: Copper alloy, nickel plated

COVER: PA 46 (UL94V-0).

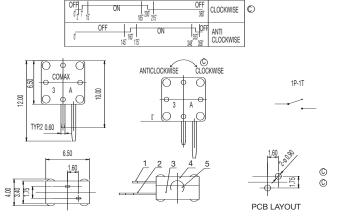
MOVABLE CONTACT: Copper alloy, nickel plated

TERMINALS: Copper alloy, gold plated BRASS BALL: Brass, nickel plated

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer



PART NUMBER	PACKAGING
RB-220-07 R	500 pieces



ROTATE ANGL

Specifications

CONTACT ARRANGEMENT: SPST

SENSOR ANGLE: 15° to 90° scope inside, terminal to

disconnection electric current

MINIMUM VOLTAGE: 1 VDC 10mA (resistive load) MAXIMUM VOLTAGE: 5 VDC 1mA (resistive load) OPERATING LIFE: 20,000 cycles (without load);

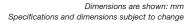
100,000 cycles with load

INSULATION RESISTANCE: 10 M Ω min. @ 100 VDC DIELECTRIC STRENGTH: 100 V AC (50-60Hz) OPERATING TEMPERATURE: -10°C to +50°C

Materials

HOUSING: PA COVER: PA BALL: Gold plated

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customs Service Center.

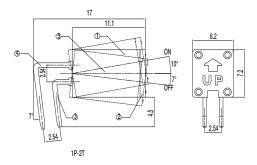


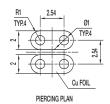


RB Series Rolling Ball Sensor Switch



PART NUMBER	PACKAGING
RB-435B	500 pieces





Specifications

CONTACT ARRANGEMENT: SPDT

MINIMUM VOLTAGE: 1 VDC 10mA (resistive load)
MAXIMUM VOLTAGE: 5 VDC 1mA (resistive load)

OPERATING LIFE: 100,000 cycles

INITAL CONTACT RESISTANCE: 5 Ω max.

INSULATION RESISTANCE: 1000 M Ω min. @ 500 VDC

DIELECTRIC STRENGTH: 500 V AC (50-60 Hz)
OPERATING TEMPERATURE: -20°C to +70°C

Materials

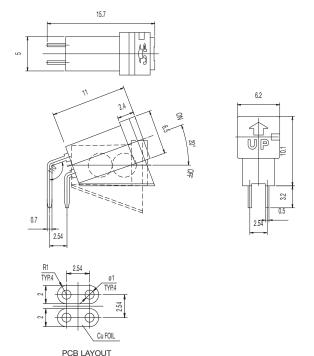
HOUSING: PA (UL94V-0) COVER: PA (UL94V-0)

MOVABLE CONTACT: Copper alloy, nickel plated

TERMINALS: Gold plated BALL: Steel, gold plated

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

PART NUMBER	PACKAGING
RB-435X2-20	500 pieces



Specifications

CONTACT ARRANGEMENT: SPDT

SENSOR ANGLE: -20° to -30° scope inside, terminal to

disconnection electric current

MINIMUM VOLTAGE: 1 VDC 10mA (resistive load)
MAXIMUM VOLTAGE: 5 VDC 1mA (resistive load)

OPERATING LIFE: 100,000 cycles

INSULATION RESISTANCE: 1000 M Ω min. @ 100 VDC

DIELECTRIC STRENGTH: 500 V AC (50-60 Hz)
OPERATING TEMPERATURE: -20°C to +70°C

Materials

HOUSING: PBT (UL94V-0) COVER: PBT (UL94V-0) TERMINALS: Gold plated BALL: Steel, gold plated

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

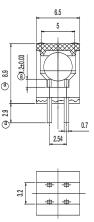


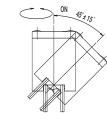


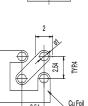
RB Series Rolling Ball Sensor Switch



PART NUMBER	PACKAGING
RB-441-45	500 pieces







PCB LAYOUT

Specifications

CONTACT ARRANGEMENT: SPDT

MAXIMUM VOLTAGE: 24 VDC 25mA (resistive load)

OPERATING LIFE: 100,000 cycles

INSULATION RESISTANCE: 1000 M Ω min. @ 100 VDC

DIELECTRIC STRENGTH: 500 V AC (50-60 Hz)
OPERATING TEMPERATURE: -20°C to +70°C

Materials

HOUSING: PBT (UL94V-0) COVER: PBT (UL94V-0) TERMINALS: Gold plated BALL: Gold plated

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

